

20010121.qrp v02_n074.qrl.20010121

Date: Sun, 21 Jan 2001 19:03:11 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2074

QRP-L Digest 2074

Topics covered in this issue include:

- 1) [89167] FOX: Hunt#27 N9AW - Final Log
by "Jerry Scherkenbach" <jerrys@execpc.com>
- 2) [89168] Re: QRP Quarterly
by "Tom Dooley" <tdooley@atl.mediaone.net>
- 3) [89169] Re: Old straight keys
by "George, W5YR" <w5yr@att.net>
- 4) [89170] FS: Frequency Counter and TenTec SWL Receiver
by "William Phinizy" <k6whp@gte.net>
- 5) [89171] Re: about tuner losses
by David Newkirk <dpnewkirk@home.com>
- 6) [89172] CONTESTS- NAQP SSB de K9IUA in North Dakota
by Kevin L Anderson <k9iua@juno.com>
- 7) [89173] My MS-15 works... Time for a Brewski
by "Jim Thiessen" <jthiessen@videotron.ca>
- 8) [89174] Re: Half Size ALTOIDS Tin
by Steve Yates - AA5TB <aa5tb@arrl.net>
- 9) [89175] Re: about tuner losses
by "ZOOM" <kandRparker@sympatico.ca>
- 10) [89176] Better deal than ARRL HB?
by K5BDZ@aol.com
- 11) [89177] Re: Altoids Tiny Tins
by W2SH@aol.com
- 12) [89178] Re: QRP Quarterly
by Bruce Muscolino <w6toy@erols.com>
- 13) [89179] Being Had?--Seems Like It.
by W2SH@aol.com
- 14) [89180] Interpreting Antenna Questions b4 Answering
by "Adrian Weiss" <aweiss@usd.edu>
- 15) [89181] MICH QSO PARTY ON -- JOIN IN!
by "Adrian Weiss" <aweiss@usd.edu>
- 16) [89182] Who gets log from yesterdays contest ?
by WB9MII@aol.com
- 17) [89183] Re: QRP Quarterly
by Mark R Milburn <kq0i@juno.com>
- 18) [89184] single digit freq.counter.
by WW30@cs.com
- 19) [89185] Re: QRP Quarterly

- by Gil Kellersman <gilkell113@yahoo.com>
- 20) [89186] Re: about tuner losses
by David Newkirk <dpnewkirk@home.com>
- 21) [89187] Re: Being Had?--Seems Like It.
by Bruce Muscolino <w6toy@erols.com>
- 22) [89188] Re: about tuner losses
by David Newkirk <dpnewkirk@home.com>
- 23) [89189] RE: My MS-15 works... Time for a Brewski
by Nick Kennedy <nkennedy@tcainternet.com>
- 24) [89190] Silver Plating ?
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 25) [89191] Fw: FS: shack cleaning time
by w4bws@juno.com
- 26) [89192] ATTN: VHF/p - FT 817 Ops
by "Mark Adams, P.E." <k2qo@hotmail.com>
- 27) [89193] We all use WWV... RIGHT?
by "n4qa@juno.com" <n4qa@juno.com>
- 28) [89194] Re: MICH QSO PARTY ON -- JOIN IN!
by "Glenn Butzlaff" <gbutzlaff@voyager.net>
- 29) [89195] Re: We all use WWV... RIGHT?
by Tom Isgro <k8cz@concentric.net>
- 30) [89196] Re: MICH QSO PARTY ON -- JOIN IN!
by Fred Lesnick <flesnick@tbaytel.net>
- 31) [89197] Ten-Tec Century 21 advice
by "Mike Swift" <m0cqg@dial.pipex.com>
- 32) [89198] Re: MICH QSO PARTY ON -- JOIN IN!
by Bob Patten <n4bp@bc.seflin.org>
- 33) [89199] FOX - Team Results -
by Bruce Rattray <rattray@gpfn.sk.ca>
- 34) [89200] Re:We all use WWV...RIGHT?
by "n4qa@juno.com" <n4qa@juno.com>
- 35) [89201] Color codes-Inductor and Capacitor
by "A Turner" <aturner13@triad.rr.com>
- 36) [89202] Re: Ten-Tec Century 21 advice
by "Larry Gaalaas" <lgaalaas@qwest.net>
- 37) [89203] Re: about tuner losses
by "Pastor-KC1DI" <elbc@pivot.net>
- 38) [89204] email address for WWV/WWVH survey request
by "n4qa@juno.com" <n4qa@juno.com>
- 39) [89205] Re: email address for WWV/WWVH survey request
by Jeff Stai WK6I <jstai@home.com>
- 40) [89206] Re: IOWA QRP 10 Part 12
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
- 41) [89207] Re: Ten-Tec Century 21 advice
by "Mike Swift" <m0cqg@dial.pipex.com>
- 42) [89208] DVFO-II
by Paul Stroud <aa4xx@ipass.net>
- 43) [89209] FOX - Team Results - correction1 -

- by Bruce Rattray <rattray@gpfn.sk.ca>
44) [89210] FOX - Team Results -
by Bruce Rattray <rattray@gpfn.sk.ca>
45) [89211] micro m pc boards
by mike bryce <prosolar@sssnet.com>
46) [89212] Re: info I received on tuners,feed lines,etc
by Bill Coleman <aa4lr@arrl.net>
47) [89213] norcal 20 fs
by Gsdavis7070@cs.com
48) [89214] Multi band inverted vee advice
by "Trevor Jacobs" <fxtech@earthlink.net>
49) [89215] Re:DVFO-II
by "n4qa@juno.com" <n4qa@juno.com>
50) [89216] SMK-1 -- replacement for MMBF2222AL
by "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
51) [89217] Re: about tuner losses
by "Andrew Catanzaro" <acatan@execpc.com>
52) [89218] Re: Home Brewing Really Open-Wire Feedlines
by Bill Coleman <aa4lr@arrl.net>
53) [89219] Re: Multi band inverted vee advice
by "Mike WA8BXN" <hubby2k@hotmail.com>
54) [89220] Color codes for Resistors
by Charles K Brown <n4so@juno.com>
55) [89221] FOX- NOUR up next, hunt #28 Tuesday 1/23
by Jim NOUR <n0ur@yahoo.com>

Date: Sun, 21 Jan 2001 00:25:55 -0000
From: "Jerry Scherkenbach" <jerrys@execpc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89167] FOX: Hunt#27 N9AW - Final Log
Message-ID: <001901c08340\$b8c5f2e0\$6687cfa9@Pjerrys>

2001 QRP-L FOXHUNT
Hunt#27 N9AW, Jan. 19, 2001 UTC
Default report sent: 559 WI JERRY 5W
98 QSOs

Time	Call	RST	SPC	NAME	PWR
0200	K5VUU	559	TX ED		5W
0201	KK5LD	559	TX DAN		5W
0201	W3ERU	559	MD WES		5W
0202	N4ROA	559	VA DAN		4W
0203	N1LN	559	TX BRUCE		5W
0203	N3AO	559	PA CARTER		5W
0204	AF4PS	579	FL MAC		4W
0206	K5EOA	559	LA WAYNE		5W

0207	N3YSI	569 PA AL	5W
0208	N6WG	559 CA BOB	5W
0208	K9IUA	559 ND KEVIN	5W
0209	N1FN	559 CO ET	5W
0209	WA9TZE	559 WI JIM	5W
0210	W5SB	559 TX BILL	5W
0210	K5LN	559 TX BILL	5W
0211	N5IW	559 TX DAVE	5W
0212	N2CQ	559 NJ KEN	5W
0213	K7FD	559 OR JOHN	5W
0213	N5TW	599 TX TOM	5W
0214	AE9K	589 WI BRIAN	5W
0214	K5ZTY	559 TX BILL	5W
0215	KC1FB	559 CT JIM	5W
0216	NY3M	559 MD BILL	3W
0216	K5AAR	559 OK DON	5W
0217	W5PF	559 TX PAUL	5W
0217	W0RW	579 CO PAUL	5W
0218	W5YR	559 TX GEORGE	5W
0219	K5JHP	559 TX BILL	5W
0220	K5DI	579 NM KARL	5W
0220	N5UW	559 OK CLIF	5W
0221	AC5JH	559 OK TOM	5W
0222	W5HNS	559 TX HENRY	5W
0222	N4SO	559 AL KEN	5W
0224	N2WW	559 CO LARRY	5W
0224	W0CH	559 MO DAVE	5W
0225	W9XU	559 WI LON	5W
0225	K4GT	559 GA JIM	5W
0226	K4TWJ	559 AL DAVE	5W
0227	K0FRP	599 CO AL	5W
0228	KR5C	559 TX GEORGE	5W
0229	N5WL	559 OK BART	5W
0229	K0MP	559 CO BILL	5W
0230	VE5RC	559 SK BRUCE	5W
0231	VA6RF	559 AB EARL	5W
0232	K3IU	559 RI KEN	5W
0233	WE6W	569 CA ED	5W
0234	KF4AR	579 NC RICK	5W
0234	NQ7X	559 AZ FLOYD	5W
0235	N5ZE	559 TX LEW	5W
0236	K4FB	559 FL PAUL	5W
0237	N5EN	559 TX STEVE	5W
0237	KQ5U	559 TX TERRY	5W
0238	K5OI	559 NM TIM	5W
0238	KI0II	559 CO RON	5W
0239	W5USJ	559 TX CHUCK	3W
0240	K5DW	559 TX DON	5W

0240	W5TB	559 TX DOC	5W
0241	K1CL	579 MA CHUCK	5W
0242	WA50JE	559 TX DANNY	5W
0242	NK7M	559 AZ BOB	5W
0243	W2XN	559 FL FRED	5W
0244	KB7WW	559 OR ART	5W
0245	W6ABC	559 CA JACK	5W
0245	AA7EQ	559 AZ BOB	5W
0246	WB7AEI	569 WA PHIL	5W
0247	K6VNX	559 CA ARN	5W
0247	N5IB	559 LA JIM	5W
0248	AA7XA	559 OR FRANK	5W
0249	K7RE	559 AZ BRIAN	5W
0249	N4JIU	559 TX BRUCE	5W
0250	K4BYF	559 FL JACK	5W
0252	NK6A	559 CA DON	5W
0252	WE7G	559 UT WAYNE	5W
0254	W7AQK	579 AZ DAVE	5W
0254	N0TU	569 CO STEVE	5W
0256	NK9G	559 WI RICK	5W
0258	AE6TT	559 CA ALLAN	5W
0300	WE9K	599 WI GLENN	2W
0301	K3GGN	559 WI DEAN	5W
0302	KE6RS	559 CA RON	5W
0308	W9UQB	559 AZ MIKE	5W
0311	N5ET	559 TX BOB	5W
0316	W9XT	559 WI GARY	5W
0320	K0YWD	559 MT SKIP	5W
0321	W4NJK	559 CA CHUCK	5W
0323	WA7TQK	559 ID BILL	5W
0325	AE4MU	559 WA DENNIS	5W
0327	K7EL	559 OR DAVE	5W
0327	AD6JV	559 CA BILL	5W
0330	AD6JY	559 CA DAN	5W
0332	WA5REJ	559 TX ALLEN	5W
0334	W2ZGB	559 CO GABE	5W
0335	KE5TF	559 TX LINDA	5W
0338	N1TP	559 FL TOM	5W
0344	N0DSP	559 CO TOM	5W
0344	N9AU	559 WI RON	5W
0359	NQ7K	559 AZ MIKE	5W
0400	N9AW	559 WI FOX	5W

Date: Sat, 20 Jan 2001 19:51:21 -0500

From: "Tom Dooley" <tdooley@atl.mediaone.net>
To: <rattray@gpfn.sk.ca>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89168] Re: QRP Quarterly
Message-ID: <025501c08344\$45dcffe0\$88185818@atl.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Bruce,

I tried to respond directly, but my e-mail was kicked back as spam?

According to the QRP ARCI web site, you will be a member until October, 2001. Check out this page:

<http://www.qrparci.org/cgi-bin/lookup.pl>

Your QQ is tied to the QRP ARCI membership.

72 de K4TJD Tom

----- Original Message -----

From: "Bruce Rattray" <rattray@gpfn.sk.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, January 20, 2001 18:55 PM
Subject: QRP Quarterly

I've just spent about 45 minutes going through my e-mails looking for the url so that I can check my status re QQ....I think I renewed using my credit card but I'm not sure...well shucks, gosh, darn, gee whiz which translates to !)*#^\$%^&*(!)....hi hi hi.... I must have deleted that message....anyone help please?....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Sat, 20 Jan 2001 19:09:11 -0600
From: "George, W5YR" <w5yr@att.net>
To: p326@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [89169] Re: Old straight keys

Message-ID: <3A6A36B7.4300C09@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I still have the second-described key which I bought in 1945 to learn the code with. Used it for years before keyers finally took their toll on my fist! <:}

I think that it was made by EF Johnson but not sure. But that is an exact description of my key.

72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

Bob Welch wrote:

>
> Hi Guys,
> Cleaning out the shack and have two keys that I am trying to determine
> the for sale or trade value. Need your help from the key experts. Guess
> they could be 30+years old.
> One is in a EF Johnson box Cat No 114-311-3. It needs a spring all else
> is fine. It is
> chrome plated with switch and on the sending arm says speedx. The other
> key also is labeled speedx .Its heavy base is black wrinkle
> finish, chrome plated key arm, with navy type knob. What is your best
> estimate of value and who would like to own them.?
>
> Bob, W8MCJ
> 425-337-4054
> Mill Creek Wa

Date: Sat, 20 Jan 2001 17:50:59 -0800
From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [89170] FS: Frequency Counter and TenTec SWL Receiver
Message-ID: <000101c0834c\$af1647c0\$50ab173f@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Forgive the bandwidth..

I am cleaning out the shack and wanted to offer the following:

TenTec 1254 SWL 100 KHz - 30 MHz PLL Receiver. Recently built and tuned up. Built cleanly, Works marvy, but I realize I have too many receiving devices per unit/shack. Have not added the 9-volt battery backup and only modification is that I (cleanly) replaced the antenna phono connector with a BNC connector. Kit cost me \$200 asking \$180 + s&h (OBO, of course).

OPTOELECTRONICS (OptoElectronics?, Optoelectronics?) model 3300 hand-held frequency counter. Clean, accurate, works perfect, with wall wart and rubber duckie. Asking \$75 + s&h. Some scratches on case and some small "LCD flecks" on the middle center of the LCD display.

Thaks for listening,

Bill, K6WHP

Date: Sat, 20 Jan 2001 20:44:03 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [89171] Re: about tuner losses
Message-ID: <3A6A3EE3.7A30254D@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Glen Leinweber wrote:

> My main point is that a
> good tuner shouldn't get hot, eating up transmitter power.

Because all tuners are made from real, not ideal, components, all tuners dissipate some power. At QRP levels, even with a tuner whose losses might be numerically unacceptable, we may not be able to feel the resulting heat. So perhaps it would be better to say that a good tuner *minimizes loss*.

Tuner losses on the order of 0.5 dB -- "only a half dB," we'd say -- can be common when we're unable to quantify tuner performance. (Just tuning for minimum input-side SWR can be a trap; a resistor of the right value will exhibit an SWR of 1, too.) To put tuner loss into perspective, it's

useful to forget the decibel -- a good idea, because once we mix up the decibel with truisms about how many dB equal an S unit, how many dB of level change a person can detect, and other relativistic lore, we're often far from useful facts -- and think in terms of power percentage. If your tuner exhibits a loss of 0.5 dB, the power available at its output is 89% of the power at its input; it dissipates *11%* of its input power, which sounds more significant than "only a half dB." So 100 W at the tuner input becomes 89 W at the tuner output; for 1 W input, the output is 0.89 W, and so on.

Dissipating 0.11 W in a tuner -- most of the loss will be in the tuner's inductor(s) -- probably won't result in detectable heat, unless you're using overminiaturized components. Dissipating 11 W may. For 1 kW, the dissipation becomes 110 W -- significant power. If you're running a 250-kW broadcast transmitter into a 0.5-dB-loss tuner, you have 27.5 kW of dissipation to deal with -- now our "only a half dB" takes on new, perhaps spectacular, meaning. We tend to tolerate more tuner loss at lower power levels because nothing gets perceptibly warm to the touch.

73,

Dave, W9VES
dpnewkirk@home.com

Date: Sat, 20 Jan 2001 21:14:43 EST
From: Kevin L Anderson <k9iua@juno.com>
To: qrp-l@lehigh.edu
Subject: [89172] CONTESTS- NAQP SSB de K9IUA in North Dakota
Message-ID: <20010121.021349.5367.0.K9IUA@juno.com>

I know the North American QSO Party has several hours to go, but the five hours I put in today were all my family would really allow.

This is a nice contest to do QRP, as the limit for any station is technically only 100W. And as always, contest stations seem to have "good ears" in picking up stations, which also helps.

Here's the results from my 5 hours of operation at 5 watts from North Dakota, S&P the entire time:

Band	Qs	Mult
20	60	x33
15	54	x26
10	46	x17

160 x76 = 12,160 claimed score

Most memorable -- picking up Hawaii (twice)
and the Yukon Territories. The long *and*
short nature of the bands also let me pick up
several close-in states, which I couldn't do last
November for Sweepstakes.

The log in summary sheet will be going into
the e-mail shortly to NCJ, clearly indicating
my QRP status for their records.

Cheers/73.

Kevin, K9IUA

Kevin Anderson, K9IUA, Lincoln/Bismarck ND
e-mail: K9IUA@juno.com Opinions all my own.

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Date: Sat, 20 Jan 2001 22:09:32 -0500
From: "Jim Thiessen" <jthiessen@videotron.ca>
To: <qrp-1@Lehigh.EDU>
Subject: [89173] My MS-15 works... Time for a Brewski
Message-ID: <000501c08357\$952076a0\$fa52cb18@videotron.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Today I wound 3 more toroids and installed them on the MS-15 to complete the
on-board parts installation. That took a bit of time...toroids require
patience.

Then I added the stuff external to the board, 10 turn pot, volume control,
jacks, cables etc.....and plugged it in for the heat test.

No smoke, thank goodness!

Peaked T1 and bingo, I hear CW...the Rx works.

Next its time to smoke test the TX.... Sidetone works...but nothing at all
heard on my ICOM735.

Turned up the power control and started tweaking and peaking...yes we have a

signal...

The scope shows 44 V peak to peak into the 50 ohm dummy load...whats that? about 5 watts? Wow! Will someone check my math?

I Connect it back on to the Gap Challenger antenna and I hear AA7TJ calling CQ, so I give him a shout. Will wonders ever cease, he comes back to me and gives me a 459 report from Boise Idaho...

You gotta love it when a project comes together and works right off the bat. Time for that great Canadian tradition: grab a brewski out of the fridge and celebrate!

Many thanks to Steve "Melt Solder" Weber, KD1JV, for a very nice kit.

Jim, VA3KV
Rockland Ontario

Date: Sat, 20 Jan 2001 21:18:02 -0600
From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89174] Re: Half Size ALT0IDS Tin
Message-ID: <00db01c08358\$c45465c0\$ee2bbcd0@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

John,

You must be speaking of the 0.40 oz. tin called the "The TINY Tin". They have been available here in Fort Worth for at least a year. I haven't decided what to squeeze into one yet though. There are even heart shaped Altoid tins available nowadays to put a rig in for that special someone. Check out the Altoid interactive Web page if you haven't already done so:

<http://www.altoids.com>

Be sure to check out "Too Hot" ;-)

I haven't seen any radio related stuff on their site yet. If only they knew why so many were being sold to QRP'ers, besides the great taste of course.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs

aa5tb@arrl.net
<http://www.geocities.com/aa5tb>

----- Original Message -----

From: "John R Kirby" <n3aaz-qrp@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, January 20, 2001 2:30 PM
Subject: Half Size ALTOIDS Tin

Seen the new Altoids tin yet?

Its about one-half the size of the original,
'goina-be a challenge for sure,
qrp/p I guess.

John
N3AAZ
FM 19 xa

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<http://dl.www.juno.com/get/tagj>.

Date: Sat, 20 Jan 2001 22:20:23 -0500
From: "ZOOM" <kandRparker@sympatico.ca>
To: <dpnewkirk@home.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89175] Re: about tuner losses
Message-ID: <003101c08359\$17914be0\$39cdfea9@einstein>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm not sure where your getting your figures but 100W with 11W absorbed by the tuner does not seem reasonable. 11W into a tuner for a prolonged period of time would cause so much heat build-up that your tuner would smoke! One way to test this out is to connect a wattmeter from before and after the tuner and measure the difference in power after the tuner has been properly adjusted.

If I am wrong I appologise but 11W wasted due to the tuner is not reasonable! That's over 10%! That's as if saying a tuner connected to a

1KW amplifier will lose over 100W in the tuner.

I do agree a very small portion of power is lost (converted to heat ect)
but this quote does seem excessive!

I have no problem being shown I'm wrong but I would like to be directed to
some sort of study.

If it's so then I learned something today!

Regards,
Robert
VE3RPF

----- Original Message -----

From: David Newkirk <dpnewkirk@home.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Saturday, January 20, 2001 8:44 PM

Subject: Re: about tuner losses

> Glen Leinweber wrote:

>

> > My main point is that a

> > good tuner shouldn't get hot, eating up transmitter power.

>

> Because all tuners are made from real, not ideal, components, all tuners
> dissipate some power. At QRP levels, even with a tuner whose losses
> might be numerically unacceptable, we may not be able to feel the
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>

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> be common when we're unable to quantify tuner performance. (Just tuning
> for minimum input-side SWR can be a trap; a resistor of the right value
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> useful to forget the decibel -- a good idea, because once we mix up the
> decibel with truisms about how many dB equal an S unit, how many dB of
> level change a person can detect, and other relativistic lore, we're
> often far from useful facts -- and think in terms of power percentage.
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> input power, which sounds more significant than "only a half dB." So 100
> W at the tuner input becomes 89 W at the tuner output; for 1 W input,
> the output is 0.89 W, and so on.

>

> Dissipating 0.11 W in a tuner -- most of the loss will be in the tuner's
> inductor(s) -- probably won't result in detectable heat, unless you're
> using overminiaturized components. Dissipating 11 W may. For 1 kW, the
> dissipation becomes 110 W -- significant power. If you're running a
> 250-kW broadcast transmitter into a 0.5-dB-loss tuner, you have 27.5 kW

> of dissipation to deal with -- now our "only a half dB" takes on new,
> perhaps spectacular, meaning. We tend to tolerate more tuner loss at
> lower power levels because nothing gets perceptibly warm to the touch.
>
> 73,
>
> Dave, W9VES
> dpnewkirk@home.com
>

Date: Sat, 20 Jan 2001 23:03:02 EST
From: K5BDZ@aol.com
To: qrp-l@lehigh.edu
Subject: [89176] Better deal than ARRL HB?
Message-ID: <1e.10404d25.279bb976@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

While at Radio Shack today getting some odds and ends, I noticed a new 100' roll of 5 conductor rotor cable marked \$0.38. So I took it to the store manager and said, "I'll buy this roll if you'll sell it for the price marked."

The manager scanned it and said, "It's supposed to be \$13.99...BUT since it's marked \$0.38 that's the sales price! That's the law!" I gave him a chance to back out but he said "You want it for that price, it's yours!" So I bought 100 feet of 5 conductor rotor cable for 38 cents.

Doesn't weigh as much as an ARRL handbook, but it didn't cost as much either.

Bill K5BDZ

Date: Sat, 20 Jan 2001 23:44:13 EST
From: W2SH@aol.com
To: qrp-l@lehigh.edu
Subject: [89177] Re: Altoids Tiny Tins
Message-ID: <41.64dd4c2.279bc31d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

My thanks to those who so kindly responded to my appeal for help in locating these. With your cooperation, it looks as though I'll be able to undertake a

few simple QRP projects this winter.

The Altoids website at <http://www.altoids.com> is informative and certainly entertaining. Tiny tins are noted as being on back order, which must account for their scarcity in this region. Just this week, heart-shaped tins have appeared at a local supermarket, but this Valentine's day novelty doesn't show on the website.

The QRO Altoids tin could house glow bug QRP gear, but ingestion of the tin's contents, even if spread over a long time, might be a problem.

For home brewers, some other containers and their dimensions are:

1. Everest Powerful Mint Gum [www.everestgum.com]. 11/16" H x 2 3/8" D x 3 1/8" W.

2. Whitman's Sampler. 15/16" H x 2 9/16" D x 3 7/32" W.

3. Napoleon Lemon Sours. Imported by Sterling Candy Co. tel. 1.800.222-0636. 15/16" H x 3" D x 4 1/8" D. Heavier gauge metal than all the others. Top is not hinged, but it can be so modified. File the corners of the 38 Special's circuit board and change the placement of some of the components to achieve a tight fit. Haven't done it but it looks possible.

4. Whitman's Surprise Tin. 3 7/8" H x 2 9/16" W x 1 11/16" D. The construction is the same as that of Band-Aid tins--another possibility in itself.

5. Paprika, pepper and other spices are sold in tins with plastic flip tops. These may be pried off and then replaced after a fully tested circuit board has been installed. The plastic flip tops then provide access to jacks, controls and indicator LEDs.

GL,

Charles, W2SH

Date: Sun, 21 Jan 2001 00:31:53 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: tdooley@atl.mediaone.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89178] Re: QRP Quarterly
Message-ID: <3A6A7449.60488739@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tom,

Actually, unless the policies have changed, you are an ARCI member for life, only the QQ subscription has a term!

73

Date: Sun, 21 Jan 2001 00:50:37 EST
From: W2SH@aol.com
To: qrp-1@lehigh.edu
Subject: [89179] Being Had?--Seems Like It.
Message-ID: <df.f48d5cb.279bd2ad@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

If there are readers of this list who are in VK land and have the right connections, I'd sure be glad to receive, and of course reimburse all costs, a copy of an article authored by A.M. Fowler, "Radio Frequency Performance of Electroplated Finishes" which appeared in the Proceedings of the Institution of Radio & Electronics Engineers Australia, Vol. 31, no. 5, May 1970, pp.148-164.

I have a digest of Mr. Fowler's findings which was published by a venerable English publication, Wireless World, in November of 1970. It says "that silver-plating a copper conductor does not, in fact, reduce the r.f. resistance but increases it. The reason is that electroplated silver and pure wrought silver are not the same. 'It was more than likely, in the early days of radio, that silver plating a coil would increase its Q because (a) the available copper tubing had a higher impurity content, and hence resistance, and (b) the silver plating processes at the time produced a very pure silver deposit of high conductivity.'

The Wireless World article continues: "The conductivity of modern copper has improved, while the bright silver plates in common use have a much lower conductivity than pure silver. The conductivity of pure silver is 62.5 M u /m; that of a plate-deposit is 0.07-55 M u /m! The position has thus changed and a silver-plated copper conductor may now give a higher r.f. resistance than a copper conductor alone."

Well Gawd-A-Mighty! Even if this were only partly true, then we've been being had by a host of pea-brained electronics manufacturers for a really long time! Has Uncle Sam spent millions of taxpayer dollars being suckered by a mil spec that provides a standard of performance inferior to what could be obtained at lower cost?

Charles, W2SH

Date: Sun, 21 Jan 2001 08:18:00 GMT
From: "Adrian Weiss" <aweiss@usd.edu>
To: qrp-1@lehigh.edu
Subject: [89180] Interpreting Antenna Questions b4 Answering
Message-ID: <G7I1DV03.D5D@mail.usd.edu>

Hi gang:

It's always interesting to follow antenna question threads. I've noticed that sometimes the thread wanders around and loses sight of the original question. Sometimes it gets tangled up into a ball.

Understanding the nature of the question is important as far knowing what to answer is concerned.

Answers providing theory about radiators, different kinds of wire, feedlines, corrosion, baluns etc. assume that the questioner wants to know how to come up with the "best" antenna, which probably means most effective and efficient implementation of whatever antenna design is being considered. The recent question about feedline radiation and baluns probably didn't aim at eliminating a funny odor. It seemed that the point was to find out how, given the present antenna and coax feedline, that antenna could be made more effective/ efficient. The antenna books and research provides the answers. If you want to go the whole route, then you apply the correct theory.

"Best" often means "the best I can do in my limited circumstances." Here, the antenna design is the focus of the question. Answers always include some really novel and potentially effective solutions to the given circumstances. I'm always amazed at the ingenuity of QRP'rs when they're up against the wall. Especially in such circumstances, "best" as noted above is usually assumed in the question. The questioner isn't asking something like "given my circumstance, what is the crummiest junk antenna I can put up that will work best, compared to other junk antennas?"

"Best" also sometimes asks for other QRP'rs opinions about the relative performance of antennas they've used. This can be helpful but generally the results cancel out, i.e., as many QRP'rs swear by their GAPS as condemn them. One of the main problems has to do with the difference in proximate antenna environment -- ground conductivity, terrain, reflecting/absorptive surfaces in the vicinity etc. So those kind of details help the questioner predict (perhaps) how the antenna will

do in his/her environment.

Sometimes questions are answered with "on the air proof". For instance, someone has heard about feedline radiation and the possibility that a balun will eliminate it -- implying that "best" in the first sense is the criteria. So, we get 5 explanations of baluns, and 5 "on the air proof" answers which do not really prove that baluns are superfluous just because all this DX was worked without a balun. Of course, the anecdotal stuff does not actually prove anything about baluns, which was the original question. In fact, the original balun question thread concluded in a junk antenna description that has nothing to do with baluns at all.

Further, your results with an antenna don't actually prove how good it really is -- compared to a REALLY good antenna. I'm at 120/137 on 30m at 1-4w mostly using a G5RV up 50-ft and a 20m Delta Loop apex at 50-ft. Does that prove these are the best antennas for working DX from SD (or anywhere else) on 30m?

Heck no! Give me a 90-ft tower and 3-el yagi anyday (plus enough of a lot to put it on) and I'll dump the G5RV without hesitation. If someone asked me whether they ought to duplicate my setup, I'd say: "absolutely not if you can put up something better!" Asking a question should include the details of what you have room etc. for. That helps the answers focus and fit the situation.

So, just a thought. What does the questioner want to find out, and what does the questioner's idea of "best" actually mean?

Ramble..ramble..like Ron says, time to crawl back into my hole...:)
72, Ade

Date: Sun, 21 Jan 2001 08:21:23 GMT
From: "Adrian Weiss" <aweiss@usd.edu>
To: qrp-1@lehigh.edu
Subject: [89181] MICH QSO PARTY ON -- JOIN IN!
Message-ID: <G7I1JJ01.V5R@mail.usd.edu>

Hi gang:

It was tough finding QRP'rs to work today (Sat) in the MI QRP QSO Party. The bands were very good. 40 is great tonight as is 80.

Put in a couple of hours Sunday and liven things up!

72, Ade

Date: Sun, 21 Jan 2001 05:23:00 EST
From: WB9MII@aol.com
To: qrp-1@lehigh.edu
Subject: [89182] Who gets log from yesterdays contest ?
Message-ID: <9d.102659ff.279c1284@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Halp,
I cant find my last QQ...who gets logs from yesterdays contest and can I
email 'em?
thanks
Greg WB9MII

Date: Sun, 21 Jan 2001 05:56:00 -0600
From: Mark R Milburn <kq0i@juno.com>
To: w6toy@erols.com
Cc: qrp-1@Lehigh.EDU
Subject: [89183] Re: QRP Quarterly
Message-ID: <20010121.055855.-653133.2.KQ0I@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

No change in the policy, that's exactly how it works.
72 Mark, KQ0I
Secretary-Treasurer
QRP ARCI

On Sun, 21 Jan 2001 00:31:53 -0500 Bruce Muscolino <w6toy@erols.com>
writes:
> Tom,
>
> Actually, unless the policies have changed, you are an ARCI member
> for
> life, only the QQ subscription has a term!
>
> 73
>

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 21 Jan 2001 07:34:31 EST
From: WW30@cs.com
To: qrp-1@lehigh.edu
Subject: [89184] single digit freq.counter.
Message-ID: <b1.60a6f56.279c3157@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

It's HERE! The single digit frequency counter kit arrived and looks great. There are not a lot of parts but they look good and the board is FB. The best part of the kit is the instructions. They are exactly like the the old Heathkit instructions where you perform a step and check it off. Ron Stone had written the article on the circuit in QST a month or so ago and it lives up to its billing. Well done Ron!

Pete Carr WW30
State College, PA

Date: Sun, 21 Jan 2001 04:43:55 -0800 (PST)
From: Gil Kellersman <gilkell113@yahoo.com>
To: w6toy@erols.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [89185] Re: QRP Quarterly
Message-ID: <20010121124355.1613.qmail@web2305.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi:

Could someone tell me how I can subscribe to the QRP Quarterly? Thanks. GIL

--- Bruce Muscolino <w6toy@erols.com> wrote:

> Tom,

>

> Actually, unless the policies have changed, you are

> an ARCI member for

> life, only the QQ subscription has a term!

>

> 73

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Date: Sun, 21 Jan 2001 07:47:03 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-1@Lehigh.EDU
Subject: [89186] Re: about tuner losses
Message-ID: <3A6ADA47.F31EA046@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Robert, VE3RPF, wrote:

"If I am wrong I appologise but 11W wasted due to the tuner is not reasonable! That's over 10%! That's as if saying a tuner connected to a 1KW amplifier will lose over 100W in the tuner. I do agree a very small portion of power is lost (converted to heat ect) but this quote does seem excessive! I have no problem being shown I'm wrong but I would like to be directed to some sort of study."

See Frank Witt's "How to Evaluate Your Antenna Tuner" in April (Part 1) and May QST (Part 2), 1995.

73,

Dave, W9VES
dpnewkirk@home.com

Date: Sun, 21 Jan 2001 08:05:45 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: W2SH@aol.com, qrp-1@lehigh.edu
Subject: [89187] Re: Being Had?--Seems Like It.
Message-ID: <3A6ADEA9.181F4BE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dear Charles,

If there was anything to the article, and I'm not saying there isn't, don't you think that those 'pea brained' manufacturers would have been quick to jump on the band wagon. They are, after all, just interested in making a profit!

73

Date: Sun, 21 Jan 2001 08:28:25 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [89188] Re: about tuner losses
Message-ID: <3A6AE3F9.267160E9@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I wrote:

"See Frank Witt's "How to Evaluate Your Antenna Tuner" in April (Part 1) and May QST (Part 2), 1995."

The two parts of this article can be downloaded via:

<http://www.arrl.org/tis/info/pdf/9504030.pdf>
<http://www.arrl.org/tis/info/pdf/9505033.pdf>

73,

Dave, W9VES

Date: Sun, 21 Jan 2001 07:56:28 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'jthiessen@videotron.ca'" <jthiessen@videotron.ca>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89189] RE: My MS-15 works... Time for a Brewski
Message-ID: <01C0837F.A9D57DC0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Oh ... You're supposed to finish the project first, THEN have the brewskis.

So that's what I've been doing wrong!

Congrats & 72--Nick, WA5BDU

-----Original Message-----

From: Jim Thiessen [SMTP:jthiessen@videotron.ca]
Sent: Saturday, January 20, 2001 9:10 PM
To: Low Power Amateur Radio Discussion
Subject: My MS-15 works... Time for a Brewski

<< File: ATT00002.txt; charset = Windows-1252 >>

Date: Sun, 21 Jan 2001 09:13:02 -0600
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89190] Silver Plating ?
Message-ID: <4.3.2.7.2.20010121091020.00b8e810@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Also, while this is a new concept to me as well, I was also taught that one big difference that is a benefit for silver plating is long term conductivity.

I've always been taught that when a copper conductor starts to oxidize, the copper oxide is a much poorer conductor than the original bright, shiny copper.

Silver oxide, on the other hand is supposed to be a good conductor.

Not my area of expertise, just what I was always taught.

Ed, N5EM

Date: Sun, 21 Jan 2001 10:13:56 -0500
From: w4bws@juno.com
To: qrp-l@lehigh.EDU
Subject: [89191] Fw: FS: shack cleaning time
Message-ID: <20010121.101420.-300245.3.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

One Hw-8 and the JPS ANC-4 have been spoken for. Thanks to all who replied.

The remaining items are below. Please direct
comments, offers, etc direct to w4bws@juno.com

1. Autek Research QF-1A SSB/CW/AM Audio filter
Condition 9 of 10 , look new, has been used for DX
And fox hunting with HW8 and other rigs.
\$60.00 includes shipping in USA.
2. HW-8 Green color, appearance 8 of 10, in good operating
condition with Power supply HW-7, HW 8 handbook and
HW 8 manual. \$110.00 includes shipping in USA.
3. HW-8 Brown and Grey cabinet >>>SOLD
4. JPS ANC-4 Noise reduction unit. >>> SOLD

Please contact me via direct e-mail to w4bws@juno.com if
Interested or need info.

Thanks

Don Sanders W4BWS

694 E. Eau Gallie Blvd

Satellite Beach ,FL 32937

My favorite QRP rig glows in the dark

w4bws@juno.com

END

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Date: Sun, 21 Jan 2001 10:46:17 -0500

From: "Mark Adams, P.E." <k2qo@hotmail.com>

To: qrp-l@lehigh.edu

Subject: [89192] ATTN: VHF/p - FT 817 Ops

Message-ID: <F214Ih0sEiG6qzAI3Qa0000134a@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Hi Gang,

I have a question to all of the ops who did portable 6/2/440 operations with
their FT-817's this weekend.

?? How did the Yaesu's perform ?? Did you operate from any sites with other
ops that tested the dynamic range of your 817's? What did you use for power?

As for me, it is about 16F outside and my only VHF gear is an old IC502A. One band, freezing cold, nahhhh, I'll stay inside this time. I am on the fence on whether to spring for an 817.

Thanks,
Mark K2QO Now back to the MI QRP contest....

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Sun, 21 Jan 2001 10:51:37 -0500 (EST)
From: "n4qa@juno.com" <n4qa@juno.com>
To: qrp-1@lehigh.edu
Subject: [89193] We all use WWV... RIGHT?
Message-ID: <389313302.980092297801.JavaMail.root@web124-wra.mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WWV is one of the HF radio stations operated by the National Institute of Standards and Technology (Formerly the National Bureau of Standards).

For many years, hams and others have used broadcasts from WWV for purposes of frequency and time calibration as well as geoalerts, propagation conditions including solar flux, A and K indices, weather reports etc etc.

While listening to WWV at 15 mHz on my new DSW-20 this morning, I received their broadcast informing users that a 'user survey' would be mailed to all interested parties which requested same. The broadcast did not seem to apply to WWVH or the VLF stations. They are asking for information about how WWV's services are being used.

I remember losing WWV at 25 mHz many years ago, leaving us with WWV at 20 mHz to calibrate HF receivers etc in that range... an additional WWV at 30 mHz would have been even better... and losing WWV at 25 mHz didn't help matters!

Yes, times have changed and they continue to do so but I'd sure hate to lose more WWV HF frequencies or any of the above-mentioned broadcasts.

So, if you're of a mind to do so, please contact N.I.S.T. and request a user survey.

I didn't get it all and will post an update as required.

Send your name and address to :

National Institute of Standards and Technology
Radio Station WWV
2000 East County Road 58
Fort Collins, CO 80524

There is also an email address but I didn't get it ... yet.
Surveys will be mailed to interested parties in May 2001, I think they
said. More later.
73-1,
Bill, N4QA

Date: Sun, 21 Jan 2001 09:23:09 -0600
From: "Glenn Butzlauff" <gbutzlauff@voyager.net>
To: <qrp-1@Lehigh.EDU>
Subject: [89194] Re: MICH QSO PARTY ON -- JOIN IN!
Message-ID: <002501c083be\$1082b400\$8e86cfa9@biff>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: Adrian Weiss <aweiss@usd.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, January 21, 2001 2:21 AM
Subject: MICH QSO PARTY ON -- JOIN IN!

> Hi gang:
>
> It was tough finding QRP'rs to work today (Sat) in the MI QRP QSO Party.
The bands were very good. 40 is great tonight as is 80.
>
> Put in a couple of hours Sunday and liven things up!
>
> 72, Ade

Is there more than one qrp contest going on this weekend? I only heard and
worked 5
stations last night on 40m, but I was only there for an hour (abt
0200-0300Z) and there
was a QRO qso going on just about dead on 7040. I didnt hear any 8 calls at

all from
southeast WI. N4ROA was really in here last nite at 599 plus 20. I just
wasn't sure if
the calling stations were working the MI qrp test or another qrp test. I
hope to get
some time in today on the higher bands.

Glenn Butzlaff, WE9K

Date: Sun, 21 Jan 2001 11:09:39 -0500
From: Tom Isgro <k8cz@concentric.net>
To: n4qa@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [89195] Re: We all use WWV... RIGHT?
Message-ID: <3A6B09C3.F777528E@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here are some of the e-mails for the Boulder, CO facilities.

Media Relations, Community Relations:
Fred P. McGehan
(303) 497-3246
mcgehan@boulder.nist.gov
NIST News

Media Relations, Public Inquiries:
Collier N. Smith
(303) 497-3198
smithcn@boulder.nist.gov
NIST News

Conference Manager:
Wendy Ortega Henderson
(303) 497-3693
ortegaw@boulder.nist.gov

Boulder Conference Page

Tours, Exhibits:
Mary Bruner
(303) 497-5507
brunner@boulder.nist.gov

Educational Outreach:
Phyllis Wright
(303) 497-3244
pkwright@boulder.nist.gov

--

"Blessed are they who can laugh at themselves for they shall never cease to be amused."

72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #-41, QRP-1 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Sun, 21 Jan 2001 11:52:40 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [89196] Re: MICH QSO PARTY ON -- JOIN IN!
Message-ID: <3A6B13D8.C13CC62@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Glenn Butzlaff wrote:

>
> ----- Original Message -----
> From: Adrian Weiss <aweiss@usd.edu>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Sunday, January 21, 2001 2:21 AM
> Subject: MICH QSO PARTY ON -- JOIN IN!
>
> > Hi gang:
> >
> > It was tough finding QRP'rs to work today (Sat) in the MI QRP QSO Party.

And they are pretty quiet today(Sunday) as well, not hearing any of my MI neighbours on 40 metres, but worked N4ROA, N2CQ, and N2CX so far on 20 m....Will be listening on 20 and 40 for more of you folks..

Fred
VE3FAL

MI #1610

Date: Sun, 21 Jan 2001 16:49:47 -0000
From: "Mike Swift" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89197] Ten-Tec Century 21 advice
Message-ID: <001701c083ca\$7e54e820\$4d11bc3e@uksolsf56>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all

I recently picked up a lovely Ten-Tec Century 21 in mint condition, and a 670 keyer to match (both of which are fairly rare in the UK). I'm really pleased with the rig, it's performing very well indeed, however there are a couple of things I find a little annoying...

Firstly, the side-tone is very 'buzzy' - sounds more like a square wave than a sine wave. Are there any recognised mods for improving this, or would I be better off disabling the internal side-tone and installing a more modern RF-sensing side-tone module with a nicer waveform?

The second thing is to do with break-in. In the 1.0kHz and 0.5kHz filter positions, there is a noticeable click in the audio at the start of each dot or dash. This isn't apparent in the wider 2.5kHz position. Again, are there any mods to alleviate this, or should I just leave it in the 2.5kHz position and use an outboard audio filter?

Any help / advice much appreciated!

Thanks & 73

Mike
M0CQG

Date: Sun, 21 Jan 2001 11:56:46 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: Fred Lesnick <flesnick@tbaytel.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [89198] Re: MICH QSO PARTY ON -- JOIN IN!

Message-ID: <Pine.3.89.10101211128.C13417-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 21 Jan 2001, Fred Lesnick wrote:

>

> And they are pretty quiet today(Sunday) as well, not hearing any of my
> MI neighbours on 40 metres, but worked N4ROA, N2CQ, and N2CX so far on
> 20 m....Will be listening on 20 and 40 for more of you folks..

>

Thanks for QSO Fred, about five mins ago! Just reading my e-mail while
the computer beacons a CQ. :-)

Condx good on 10/15/20 but VERY little participation...

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715

QRP ARCI #3412

FISTS #7871

ARS #799

SOC #1

Whiners #6

Date: Sun, 21 Jan 2001 10:57:39 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [89199] FOX - Team Results -
Message-ID: <Pine.LNX.3.95.1010121105118.20741A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

In memory of Joel, K1QM(SK) -

...Hunt #23 - NW7DX -

The Raiders of the Lost RF - 50

Mary - NA6E

Fred - VE3FAL

Rob - VE6JAZ

Earl - VA6RF *

Bruce- VE5RC *

The Big Dawgs - 107

ET - N1FN *

Tom - N5TW *

Larry- N2WW * Clean Sweep

Bill - K0MP *

Bob - N6WG *

The ScQRPions - 93

Floyd - NQ7X *
Brian - K7RE *
Conard- WS4S
Chuck - K7Q0 *
Bob - NK7M *

The Cheeseheads - 103

Brian - AE9K *
Jerry - N9AW *
Rick - NK9G
Lou - W9XU *
Jim - WA9TZE *

The New England Hunt Club - 36

Joel - K1QM(SK)
John - K1JD
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Howard- K2UD
Bob - K2VNM
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Andy - N8MX
Kent - KB9VZS
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The Cajun Thunder - 57

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The Houston Hounds - 98

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Bill - W5SB *
Terry- KQ5U *
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Doc - K0EVZ *

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Roy - AB7CE
Art - KB7WW *
Glenn - WA7SPY *
Ron - KI0II *

The NE-TX Tornados - 79

Bill - K5JHP *

Doug - W4IDW
Skip - K0YWD * Yippykiyokyea!!
John - W4IM
Paul - W2RIA

Chuck - W5USJ *
Don - K5DW *
George- W5YR *
Rich - N5JI

The Minnesota North Stars - 93
Mert - W0UFO *
Scott- N0AR *
Craig- AA0ZZ
Jim - N0UR *
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Thom - WI8W
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John - K7FD/K7LOW *

The Terminators - 24
Bill - NT1R
Thaire - W2APF
David - K7EL *
Bob - N7XY *
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank
you...72 - Bruce(VE5RC+VE5QRP)

Date: Sun, 21 Jan 2001 12:19:24 -0500 (EST)
From: "n4qa@juno.com" <n4qa@juno.com>
To: qrp-1@lehigh.edu
Subject: [89200] Re:We all use WWV...RIGHT?
Message-ID: <385808932.980097565010.JavaMail.root@web114-wra.mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

One correction:
WWVH IS included in the survey.

I'm still working on the exact email address...they speak so quickly and
QSB doesn't help much either :)

By the way, this special broadcast commences at exactly four minutes
past the hour...in case you want to copy it for yourself.

WWV may be received on 2.5, 5, 10, 15, and 20 mHz.
WWVH may be received on 2.5, 5, 10, and 15 mHz.

73-1,
Bill, N4QA

Date: Sun, 21 Jan 2001 12:31:58 -0500
From: "A Turner" <aturner13@triad.rr.com>
To: <qrp-1@lehigh.edu>
Subject: [89201] Color codes-Inductor and Capacitor
Message-ID: <000f01c083d0\$0ea05a40\$a4611e01@triad.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I found the site below to be very useful for color codes of molded

inductors, toroids and capacitors. It has a calculator that can be downloaded if you like or you can just keep the site URL in your favorites.

<http://tritium.fis.unb.br/Fis3Exp/Fis3-Exp03.html>

I would like recommendations for a cap and inductance meter. I need something better than the MFJ259. Anyone have a good homebrew or kit project?

Alex Turner- N4BYJ

Date: Sun, 21 Jan 2001 11:49:01 -0600
From: "Larry Gaalaas" <lgaalaas@qwest.net>
To: m0cqg@dial.pipex.com, " Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89202] Re: Ten-Tec Century 21 advice
Message-ID: <00c301c083d2\$71099c80\$0300000a@larry>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Probably needs repair rather than mods. I have had a couple C21s over the years and don't recall either of your symptoms.

73,

Larry KB0R

----- Original Message -----

From: "Mike Swift" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, January 21, 2001 10:49 AM
Subject: Ten-Tec Century 21 advice

> Hi all

>

> I recently picked up a lovely Ten-Tec Century 21 in mint condition, and a
> 670 keyer to match (both of which are fairly rare in the UK). I'm really
> pleased with the rig, it's performing very well indeed, however there are
> a
> couple of things I find a little annoying...

>

> Firstly, the side-tone is very 'buzzy' - sounds more like a square wave
than

> a sine wave. Are there any recognised mods for improving this, or would I
be

> better off disabling the internal side-tone and installing a more modern

> RF-sensing side-tone module with a nicer waveform?
>
> The second thing is to do with break-in. In the 1.0kHz and 0.5kHz filter
> positions, there is a noticeable click in the audio at the start of each
dot
> or dash. This isn't apparent in the wider 2.5kHz position. Again, are
there
> any mods to alleviate this, or should I just leave it in the 2.5kHz
position
> and use an outboard audio filter?
>
> Any help / advice much appreciated!
>
> Thanks & 73
>
> Mike
> M0CQG
>
>
>

Date: Sun, 21 Jan 2001 13:23:50 -0500
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <dpnewkirk@home.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89203] Re: about tuner losses
Message-ID: <005a01c083d7\$4e9d1aa0\$4c1299d0@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "David Newkirk" <dpnewkirk@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, January 21, 2001 7:47 AM
Subject: Re: about tuner losses

> Robert, VE3RPF, wrote:
>
> "If I am wrong I appologise but 11W wasted due to the tuner is not
> reasonable! That's over 10%! That's as if saying a tuner connected to
> a
> 1KW amplifier will lose over 100W in the tuner.

> I do agree a very small portion of power is lost (converted to heat
> ect) but this quote does seem excessive!
> I have no problem being shown I'm wrong but I would like to be directed
> to
> some sort of study."
>
> See Frank Witt's "How to Evaluate Your Antenna Tuner" in April (Part 1)
> and May QST (Part 2), 1995.
>
> 73,
>
> Dave, W9VES
> dpnewkirk@home.com

Hi All ,
The Articals Referenced have been discussed on numerous news groups over the
years.. and basically the conclusion is that Franks method of Testing tunner
efficiency was flaw from the beginning.. I tend to argee with that and the
figures in his articles are way our of reason.

If you had anything approaching 10% loss in the tunner the coil would be
either too big to fit in the box or carbon dust.

73 Dave KC1DI.

Date: Sun, 21 Jan 2001 15:21:01 -0500 (EST)
From: "n4qa@juno.com" <n4qa@juno.com>
To: qrp-l@lehigh.edu
Subject: [89204] email address for WWV/WWVH survey request
Message-ID: <387650165.980108462272.JavaMail.root@web694-wra.mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Listening to WWV at 15 mHz on my brand-spanking-new DSW-20 kit rig, I
copy the email address for requesting to be included in the WWV/WWVH
user survey as:

nist.radio@boulder.nist.gov

See also, info given in original post:

We all use WWV...RIGHT?

73-1,
Bill, N4QA

Date: Sun, 21 Jan 2001 12:36:05 -0800
From: Jeff Stai WK6I <jstai@home.com>
To: n4qa@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89205] Re: email address for WWV/WWVH survey request
Message-ID: <3A6B4835.E4FAD88A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"n4qa@juno.com" wrote:

>
> Listening to WWV at 15 mHz on my brand-spanking-new DSW-20 kit rig, I
> copy the email address for requesting to be included in the WWV/WWVH
> user survey as:
>
> nist.radio@boulder.nist.gov

hi Bill - I believe you have it right - that is the general info address
given on the WWV page at NIST:

<http://www.boulder.nist.gov/timefreq/stations/wwv.html>

7x! - j

--
jeff stai
WK6I DM13
NAR #21059 TRA #3356 L2
jstai@home.com / wk6i@arrl.net
ROC web page: <http://www.rocstock.org/>

Date: Sun, 21 Jan 2001 15:57:03 -0500
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: "Donny Sirait" <yb1bod@arrl.net>
Cc: qrp-l@lehigh.edu

Subject: [89206] Re: IOWA QRP 10 Part 12
Message-ID: <5.0.0.25.1.20010121154718.009e45f0@pop.prodigy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:46 PM 1/20/01 +0700, Donny, YB1BOD wrote:

>Dear Jim & Gang,

Greetings Donny,

>I saw that you are using NP0 caps for the band pass filters
>(I hope I'm right just NP0 is very rare here and I'm not very sure how
>it look likes).

Just like any other disc ceramic, but usually has a black band at the top and sometimes a "J" after the value designator. If it is built like a chip capacitor with leads and a little blob of epoxy on it, there is a "J" after the value marking indicating it is an NPO type. At least that's the way mine are marked.

>Is it really needed for band pass filters or can we substitute
>ordinary ceramic caps (the ZU type) for the band pass??

Yes you can, but the capacitor loss will be higher for the ZU and other types. NPO, polystyrene and silver mica all have low loss at r.f. frequencies and are more stable with temperature. But other types will work, but just not as well.

>I thought that NP0 are needed mainly in freq determining circuits
>like VFO and mixers.

Also true, mostly because of their zero temperature coefficient of capacitance, which helps keep the VFO stable. However, the lower loss, (higher Q" also reduces self heating, so that helps with the frequency stability.

>Please correct me If I'm wrong.

>

>Thank you for reading and your kind attentions.

You have it essentially correct Donny. Too bad NPO caps are so difficult to get in your country. We gotta get that fixed! :-)

72 and kind regards,

Jim, K8IQY

Date: Sun, 21 Jan 2001 20:58:57 -0000
From: "Mike Swift" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89207] Re: Ten-Tec Century 21 advice
Message-ID: <002a01c083ed\$3f614140\$2b1abc3e@uksolsf56>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Many thanks to everyone who replied so far!

I've done a little more testing and have found that the click is *just* noticeable on the 2.5kHz position too, but very faint. I've also noticed that the higher I set the sidetone level (I had it cranked all the way down, as I don't like it loud!), the less noticeable the click becomes.

Looking at the circuit diagrams, I have to conclude that it's something to do with the audio mute switching in the audio power amp circuit. I guess it's time to take the top off!

Thanks again, & 73

Mike
M0CQG

Date: Sun, 21 Jan 2001 16:06:24 -0500
From: Paul Stroud <aa4xx@ipass.net>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [89208] DVFO-II
Message-ID: <3A6B4F50.5FC4EB63@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

I recently built two of the DDS VFO kits from S&S Engineering. During the assembly of the first kit, I screwed up and soldered one of the SMT IC's in backwards. Since this was my first foray into SMT construction, I felt pretty low after realizing what I'd done. After carefully removing the chip, I started feeling better. The board came thru unscathed, and the only thing that was damaged was my own pride. :-)

An email to Kathy at S&S Engineering brought the encouraging word that they were sending me a replacement chip AT NO CHARGE. Now that is good business! The replacement chip arrived within three or four days, and now both DVFO's are working great.

The DDS VFO is really neat, with 1 Hz resolution and very little drift. My units stay within 1 to 2 Hz after a 5 minute warmup.

I just wanted to share my good experience with you all. Companies like S&S deserve our support. I have no affiliation with S&S other than being a satisfied customer.

72, Paul AA4XX

Date: Sun, 21 Jan 2001 15:18:11 -0600 (CST)
From: Bruce Ratray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [89209] FOX - Team Results - correction1 -
Message-ID: <Pine.LNX.3.95.1010121151528.6687B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...K5AAR worked NW7DX to add 1 point for the Fox Terrors.

In memory of Joel, K1QM(SK) -

...Hunt #23 - NW7DX -

The Raiders of the Lost RF - 50
Mary - NA6E
Fred - VE3FAL
Rob - VE6JAZ
Earl - VA6RF *
Bruce- VE5RC *

The Big Dawgs - 107
ET - N1FN *
Tom - N5TW *
Larry- N2WW * Clean Sweep
Bill - K0MP *
Bob - N6WG *

The ScQRPions - 93

The Flying Pigs #1 - 31

Floyd - NQ7X *
Brian - K7RE *
Conard- WS4S
Chuck - K7Q0 *
Bob - NK7M *

Diz - W8DIZ
Rick - WB6JBM
Dan - N8IE *
Brian- KB9BVN
Dave - WR50 *

The Cheeseheads - 103
Brian - AE9K *
Jerry - N9AW *
Rick - NK9G
Lou - W9XU *
Jim - WA9TZE *

The Houston Hounds - 98
Bill - K5ZTY
Bill - W5SB *
Terry- KQ5U *
Dan - KK5LD *
Danny- WA50JE *

The New England Hunt Club - 36
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John - K1JD
Jim - KC1FB *
Aron - N10DL
John - KB1ENS
Seab - AA1MY

The Swamp Rats - 75
Paul - K4FB *
Jack - K4BYF *
Pete - NV4V *
Fred - W2XN
Tom - N1TP *

The Buffalo Wings - 33
Mark - K2Q0
Dave - AA2PF
Howard- K2UD
Bob - K2VNM
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Doc - K0EVZ *

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Doug - W4IDW
Skip - K0YWD * Yippykiyokyea!!

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David - K7EL *
Bob - N7XY *
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank
you...72 - Bruce(VE5RC+VE5QRP)

Date: Sun, 21 Jan 2001 15:26:29 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [89210] FOX - Team Results -
Message-ID: <Pine.LNX.3.95.1010121152007.6687C-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

In memory of Joel, K1QM(SK) -

...Hunt #24 - W8RU -

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Tom - N5TW *
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Bob - N6WG *

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Seab - AA1MY

Tom - N1TP *

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Bill - NT1R
Thaire - W2APF *
David - K7EL
Bob - N7XY
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank
you...72 - Bruce(VE5RC+VE5QRP)

Date: Sun, 21 Jan 2001 16:32:55 -0500
From: mike bryce <prosolar@sssnet.com>
To: <qrp-1@lehigh.edu>
Subject: [89211] micro m pc boards
Message-ID: <B690BFB7.C06E%prosolar@sssnet.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Hola...

I have found a handful of micro m pc boards stashed in the basement. Anyone who wants one, they're \$6 which includes shipping and all the paper work...

--

Mike Bryce WB8VGE
SunLight Energy Systems
"Electricity at the speed of light"

Date: Sun, 21 Jan 2001 16:25:42 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <RangerSF5@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89212] Re: info I received on tuners, feed lines, etc
Message-ID: <200101212112.QAA21851@mail1.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/17/01 7:15, RangerSF5@aol.com at RangerSF5@aol.com wrote:

>In a message dated 1/17/01 7:12:17 AM W. Europe Standard Time,
>aweiss@usd.edu
>writes:
>
><<
> A TUNER AT THE TRANSMITTER END OF THE FEEDLINE HAS ABSOLUTELY
> NO EFFECT ON THE FEED POINT IMPEDANCE OF ANY ANTENNA,

True.

>I always thought this to be VERY true but so many others told me different

It is true.

>Your tuner is not just "fooling the transmitter" as you may have heard
>from some ham
>conversations. It is actually matching the transmitter final output
>impedance to the antenna system input impedance so that all of the power
>will be transferred to the antenna system.

This is true as well.

The tuner does not change the impedance AT THE ANTENNA. However, it does transform the impedance at the transmitter to create a perfect conjugate match at the output terminals, which exists right up to the antenna terminals.

>ALL THE POWER GO TO THE ANTENNA SYSTEM?

Yup, except that lost within the tuner and the feedline.

>RIGHT BUT IF THE ANTENNA IS NON RESONATE THEN DO YOU STILL GET RF ON THE
>COAX?

RF on the coax is caused by antenna / feedline imbalances, not by antenna
tuners!

>So what if the antenna system is way off?

It doesn't matter. The antenna system and the tuner form a conjugate
match. This makes the entire antenna system resonant. Note by antenna
system, we mean the combination of the feedline and antenna.

>I'm still confused as how the tuner can make the non resonate antenna more
>effective.

By proving the proper impedance, the tuner makes the feedline transmit
the power to the antenna. Once the energy reaches the antenna
efficiently, it must radiate (or be dissipated as heat).

>I read on one site that coax length has no affect on SWR at all.

Longer coax can reduce SWR, due to losses in the coax.

Differing coax lengths can also transform impedance into something a
tuner may have a easier time matching. The SWR doesn't change. Instead,
the impedance moves around an SWR circle.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net

Quote: "Not within a thousand years will man ever fly!"

-- Wilbur Wright, 1901

Date: Sun, 21 Jan 2001 16:36:07 EST

From: Gsdavis7070@cs.com

To: qrp-l@lehigh.edu

Subject: [89213] norcal 20 fs

Message-ID: <4f.6663cd8.279cb047@cs.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Its red and its in mint cond. Full feature tick keyer. Audible freq.
announce. Not a mark
scuff , scratch or blemish on it. She's a hot little number and wants to
spend some
time in your shack. Why , you ask? Because I dont carress her often enough.
Have all
documentation and paper work. 140.00 Lets do the deal!
email me Gordy Nw0y

Date: Sun, 21 Jan 2001 13:41:03 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89214] Multi band inverted vee advice
Message-ID: <006901c083f2\$dbd27120\$8614f4d8@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Guys and Gals,

Well I tried to put up a new antenna yesterday with not so great
results. I lowered my 40 meter (33 ft per side) inverted vee and with the
help of Joe W1GFH we measured out some new wire for a 10/20/40-15 antenna. I
had seen in the ARRL Antenna Handbook plans for a multiband dipole, where
you feed it with coax to the center and from the center you basically have
resonant elements for the bands that you want to work. The theory seems
pretty straight forward. Since each element is resonant on a specific band,
it will take the majority of the power for that band. The day before I had
picked up some #12 insulated solid copper wire from a surplus store for
cheap and figured that this would make great radiators. So, we measured out
six lenghts of wire. 2 for 40 meters (33' each), 2 for 20 meters (16.5'
each) and 2 for 10 meters (8.25' each). One end of each wire was soldered to
a small lug connector and attached to either side of a Bencher ZA-1A 1:1
balun. The balun was then raised to ~35'. the other ends of the radiator
wires were attached to ceramic insulators and nylon rope. the nylon rope was
secured so that there was ~a 2 to 3' spread between the radiators for the
different at the bottom. Also, the feedline is ~30' of RG-8X going from the
balun to an MFJ-941C tuner. The results were that 40 loads up fine, 20 seems
to load ok also, but 10 and 15 won't load at all, and in fact you can't even
hear a difference in the RX audio nomatter what you do with the tuner. Also,
40 loads up with about a 2:1 SWR in the low part of the band with no tuner
and around 3:1 in the SSB part of the band, but none of the other bands load
up at all without a tuner. Now, here's what I think may be going on. The
spacing at the center point of the antenna is pretty close between the
elements, so I think I may be getting some interaction between the elements.

I was thinking of using some plastic rods cut to like 1 foot and drilled with 3 holes in each 6 inches apart to spread out the radiators near the balun. Anyone ever build one of these antennas? So what am I doing wrong here folks. The god of the ether isn't smiling on me today ;-). Anyway, take care and any info would be appreciated!

73
Trev
KG6CYN

Date: Sun, 21 Jan 2001 16:43:02 -0500 (EST)
From: "n4qa@juno.com" <n4qa@juno.com>
To: qrp-1@lehigh.edu
Subject: [89215] Re:DVFO-II
Message-ID: <388051665.980113385958.JavaMail.root@web124-wra.mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the info on the DVFO-II DDS VFO, Paul.
I've been thinking about using something like that as the VFO for some of my old rigs like the Knight-kit T-60, Eico 723, Heathkit DX-20 and as the VFO in my Hammarlund SP-600-JX-26 receiver... a great receiver except for the freq drift.
And, of course, QRP projects might be made a great deal simpler for the homebrewer...
What I'd REALLY like is a single, frequency-agile and amplitude-agile unit that would output the carrier freq (or its subharmonic in the case of freq-multiplying rigs) for transmit and another for receiver injection / VFO as required for anything one might encounter...kinda like the scheme used in DSWs... you listenin', Dave?
So many toys & ideas...so little time :)
73-1,
Bill, N4QA

Date: Sun, 21 Jan 2001 15:49:42 -0600
From: "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [89216] SMK-1 -- replacement for MMBF2222AL
Message-ID: <097f01c083f4\$0feaf850\$017c9396@dra.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Like an idiot, I soldered one of the 2222-equivalents in the wrong place. I have a number of similar transistors from another project but they are MMBT2222A rather than MMBF2222AL. Both appear to be SOT-23 packaging and claim to be equivalent to the 2N2222A. So, does anyone know the difference between the two?

Thanks for any help.

73,
Mike WA0SXV

Date: Sun, 21 Jan 2001 17:24:40 -0600
From: "Andrew Catanzaro" <acatan@execpc.com>
To: <qrp-1@Lehigh.EDU>
Subject: [89217] Re: about tuner losses
Message-ID: <00a501c08401\$54ac8500\$458bcfa9@catan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have tested a variety of tuners on 40 meters while feeding a real antenna. The antenna is a 160 foot long inverted vee at 45 feet at the center and fed with 110 feet of 450 ohm ladder line.

I used RF thermocouples in each leg of the 450 ohm balanced feedline connected to a Fluke DVM. By adjusting transmitter power (measured by a Bird wattmeter) to obtain the same thermocouple readings, I could see the relative efficiencies of tuners. I used forty meters as a test frequency as it is a very difficult load (SWR 37.9 @ 7.045 MHz, R of 66 ohms, X -555, and Z 560 ohms) and at the same time, the antenna is a very good radiator with many QRP and QRO QSO's all over the world. To eliminate the variable of a balun at the output of the tuner, the ladder line was connected to the coax output. I used a huge current balun between the tuners and the transmitter and I let the tuner chassis float from ground and kept it away from nearby

metal objects. I obviously do not touch the tuner when making measurements or operating with more than a few watts. The Bird wattmeter was positioned between the current balun and the transmitter. I was able to tune out all reflected power on the transmitter side of the current balun. To be brief, let me say that an MFJ 300 watt tuner had to be fed with 68 watts to achieve the same reading as an MFJ 3 KW tuner at 58 watts for the same thermocouple reading! That 10 watts was dissipated somewhere, and it's not hard to see it went up as heat in the tuner. 15% may not seem like much, but I would not want any significant power lost when operating QRP with a marginal antenna. Belrose in QST has published data a few years ago on the measured inefficiencies of popular automatic antenna tuners. I tested other tuners, including a Johnson Matchbox, and the results are all surprising. The Matchbox wouldn't load on 40 at all! With a military surplus tuner operated at 1 KW, I have seen the SWR slowly rise during a QSO. Why? The inductor was gradually getting hot!

Many ops with inefficient tuners are proving that QRP really works, and they don't know just how well it works!
Go back and read Frank Witt and believe him.

Andy Catanzaro
W9NJY
Milwaukee

----- Original Message -----
From: "Pastor-KC1DI" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, January 21, 2001 12:23 PM
Subject: Re: about tuner losses

>
> ----- Original Message -----
> From: "David Newkirk" <dpnewkirk@home.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Sunday, January 21, 2001 7:47 AM
> Subject: Re: about tuner losses
>
>
> > Robert, VE3RPF, wrote:
> >
> > "If I am wrong I appologise but 11W wasted due to the tuner is not
> > reasonable! That's over 10%! That's as if saying a tuner connected to

> > a
> > 1KW amplifier will lose over 100W in the tuner.
> > I do agree a very small portion of power is lost (converted to heat
> > ect) but this quote does seem excessive!
> > I have no problem being shown I'm wrong but I would like to be directed
> > to
> > some sort of study."
> >
> > See Frank Witt's "How to Evaluate Your Antenna Tuner" in April (Part 1)
> > and May QST (Part 2), 1995.
> >
> > 73,
> >
> > Dave, W9VES
> > dpnewkirk@home.com
>
> Hi All ,
> The Articals Referenced have been discussed on numerous news groups over
the
> years.. and basically the conclusion is that Franks method of Testing
tunner
> efficiency was flaw from the beginning.. I tend to argee with that and the
> figures in his articles are way our of reason.
>
> If you had anything approaching 10% loss in the tunner the coil would be
> either too big to fit in the box or carbon dust.
>
> 73 Dave KC1DI.
>
>

Date: Sun, 21 Jan 2001 16:25:41 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <doug@ycsi.net>, "QRP" <qrp-1@Lehigh.EDU>
Subject: [89218] Re: Home Brewing Really Open-Wire Feedlines
Message-ID: <200101212112.QAA21838@mail1.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/17/01 19:01, Doug at doug@ycsi.net wrote:

>I built my open wire
>feeders out of 0.109 copper/steel phone line for strength and durability.
>I used ceramic insulators, 2.5 inches long and soldered jumpers over each
>end to allow them to turn some on the wire, but still stay in some form of

>straight.

WHERE did you obtain ceramic insulators?

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Sun, 21 Jan 2001 23:39:15
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: fxtech@earthlink.net
Cc: qrp-l@lehigh.edu
Subject: [89219] Re: Multi band inverted vee advice
Message-ID: <F102g3AmsfGdMNFmWAF0000019a@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have had good results with mutiple dipoles sharing the same feedline, also in moderate inverted v configurations. These have been mostly for the lower bands 80-30 M. When I tried to make a two band version with twinlead cut to the proper lengths I had very poor results tuning wise. What I have found works best for me is to tie the ends of the dipoles off at different trees. No tuner needed. If you are going to use a tuner a better choice might be a single dipole/inverted V fed by some kind of balanced line (twinlead works ok for QRP power levels).

73 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Sun, 21 Jan 2001 12:53:10 -0600
From: Charles K Brown <n4so@juno.com>
To: qrp-l@lehigh.edu
Subject: [89220] Color codes for Resistors
Message-ID: <20010121.172929.10582.2.n4so@juno.com>

QRPHB series by Jenna Design
These are freeware programs that calculate resistance and capacitance. In zipped files.

<http://qrp.pops.net/qrp/default.htm>

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element mono. yagi
Elecraft K1 #260

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Date: Sun, 21 Jan 2001 15:53:35 -0800 (PST)
From: Jim NOUR <n0ur@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Cc: =?ISO-8859-1?Q?"MN=A0"?= QRP <mnqrp-l@qth.net>
Subject: [89221] FOX- NOUR up next, hunt #28 Tuesday 1/23
Message-ID: <20010121235335.57409.qmail@web10406.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I think we all know what to do by now. Please try and
make it this Tuesday, and I will try and hear all of
you. I will be listening up, and when I send TU,
start
shooting.

72's es GL

Jim NOUR ///RST-MN-JIM-5W\\\

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End of QRP-L Digest 2074
